

ABSTRACTIMAGE PROCESSING APPARATUS

5 In an image processing apparatus 2, image data defining  
input images of a scene recorded at different times and  
with different viewing positions and viewing directions  
is processed to generate data defining a time-lapse  
sequence of images for display to a user showing an  
evolving representation of the scene between the times at  
10 which the first and last input images were recorded.  
Processing is carried out to register the input images by  
calculating the transformations which align matching  
features in the images, and interpolation is carried out  
between the pixel values of the registered images to  
15 generate pixel values for interpolated images in the  
time-lapse sequence. In this way, it is not necessary  
for the photographer to leave a camera in position to  
record images for a time-lapse sequence, and instead can  
return to the scene as and when required to record the  
20 images since the viewing position and viewing direction  
for the images do not need to be the same.

(FIGURE 1)